

Atty. Dkt. No. 034536/0827

Appln. No. 09/822,295

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-11. (Canceled)

Claim 12. (Currently Amended) An isolated, enriched, or purified PTP04 polypeptide, wherein said polypeptide comprises:

(a) an amino acid sequence comprising at least 90% identity to the full length amino acid sequence set forth in SEQ ID NO: 2;

(b) an amino acid sequence comprising a sequence having at least 90% identity over the length of amino acid residues 49-294 of ~~to the full length amino acid sequence of the sequence set forth in SEQ ID NO: 2, except that it~~ lacks and lacking amino acid residues 1-48 [[49-294 or 295-807]] of SEQ ID NO: 2;

(c) an amino acid sequence comprising a sequence having at least 90% identity over the length of amino acid residues 49-294 of SEQ ID NO: 2 ~~to the amino acid sequence set forth in amino acid residues 1-48, 49-294, or 295-807 of SEQ ID NO: 2;~~ or

(d) an amino acid sequence comprising a sequence having at least 90% identity over the length of amino acid residues 49-294 of SEQ ID NO: 2 ~~to the full length amino acid sequence set forth in SEQ ID NO: 2 except that it lacks and lacking amino acid residues 1-48 or amino acid residues 295-807-an N-terminal domain or a C-terminal domain,~~

wherein said polypeptide possesses an enzymatic activity of a tyrosine phosphatase.

Claims 13-22. (Canceled)

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- Claim 23. (Previously Presented) The polypeptide of claim 12, wherein said polypeptide comprises an amino acid sequence comprising at least 95% identity to the full length amino acid sequence set forth in SEQ ID NO: 2.
- Claim 24. (Previously Presented) The polypeptide of claim 12 wherein said polypeptide comprises the full length amino acid sequence set forth in SEQ ID NO: 2.
- Claim 25. (Currently Amended) The polypeptide of claim 12, wherein said polypeptide comprises a sequence having an amino acid sequence comprising at least 95% identity over the length of to the amino acid sequence set forth in amino acid residues [[1 – 48, ]49 – 294 [[or 295 – 807]] of SEQ ID NO: 2.
- Claim 26. (Currently Amended) The polypeptide of claim 12, wherein said polypeptide comprises the amino acid sequence set forth in amino acid residues [[1 – 48,] 49 – 294 [[or 295 – 807]] of SEQ ID NO: 2.
- Claim 27. (Currently Amended) The polypeptide of claim 12 wherein said polypeptide comprises ~~an amino acid a sequence comprising~~ having at least 95% identity over the length of amino acid residues 49-294 of SEQ ID NO:2 to the full length amino acid sequence set forth in SEQ ID NO: 2 except it lacks and lacking amino acid residues 1-48 or 295-807 of SEQ ID NO: 2.
- Claim 28. (Currently Amended) The polypeptide of claim 12 wherein said polypeptide comprises the full length amino acid sequence set forth in SEQ ID NO: 2 except it lacks amino acid residues 1-48 or 295-807 of SEQ ID NO:2.
- Claim 29. (Currently Amended) The polypeptide of claim 12 wherein said polypeptide comprises ~~an amino acid a sequence comprising~~ having at least 95% identity over the length of amino acid residues 49-294 of SEQ ID NO:2 to the full length amino acid sequence set forth in SEQ ID NO: 2 except it lacks and lacking an N-terminal domain or a C-terminal domain.

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- Claim 30. (Currently Amended) The polypeptide of claim 12 wherein said polypeptide comprises the full length amino acid sequence set forth in SEQ ID NO: 2 except it lacks an N-terminal domain or a C-terminal domain.
- Claim 31. (Previously Presented) An isolated, enriched or purified polypeptide comprising the polypeptide of claim 12 fused to non-PTP04 polypeptide.
- Claim 32. (Canceled)
- Claim 33. (Previously Presented) A pharmaceutical composition comprising the polypeptide of claim 12.
- Claim 34. (Currently Amended) The isolated, enriched or purified polypeptide of claim [[33]] 31, wherein said non-PTP04 polypeptide is hemagglutinin or GST.